AUTHOR INDEX OF VOLUME 84*

Altiero, N., see Liu, N.	(2) $211 - 226$
Alves, J.L.D., see Coutinho, A.L.G.A.	(2) 129 - 145
Amini, S. and P.J. Harris, A comparison between various boundary integral	
formulations of the exterior acoustic problem	(1) 59 - 75
Chang, C.L. and BN. Jiang, An error analysis of least-squares finite element	
method of velocity-pressure-vorticity formulation for Stokes problem Coutinho, A.L.G.A., J.L.D. Alves, N.F.F. Ebecken and L.M. Troina, Conjugate gradient solution of finite element equations on the IBM 3090 vector	(3) 247 – 255
computer utilizing polynomial preconditions	(2) 129 – 145
Demkowicz, L., J.T. Oden and W. Rachowicz, A new finite element method for solving compressible Navier-Stokes equations based on an operator splitting	
method and h-p adaptivity	(3) 275 $-$ 326
Dilintas, G. and P. Laurent-Gengoux, Computing stress intensity factors in	. ,
anisotropic solids by finite element methods	(2) $111 - 127$
Ebecken, N.F.F., see Coutinho, A.L.G.A.	(2) 129 – 145
Evans, D.J. and M.S. Sahimi, The solution of nonlinear parabolic partial	
differential equations by the alternating group explicit (AGE) method	(1) 15 - 42
Farhat, C. and N. Sobh, A consistency analysis of a class of concurrent	
transient implicit/explicit algorithms	(2) 147 - 162
Fitzsimons, C.J., J.J.H. Miller, S. Wang and C.H. Wu, Hexahedral finite	
elements for the stationary semiconductor device equation	(1) 43 - 57
Friedman, M.B., see Luo, JC.	(2) 193 - 209
Hansbo, P. and A. Szepessy, A velocity-pressure streamline diffusion finite	
element method for the incompressible Navier-Stokes equations	(2) 175 - 192
Harris, P.J., see Amini, S.	(1) 59 - 75
Hughes, T.J.R., see Hulbert, G.M.	(3) 327 - 348
Hulbert, G.M. and T.J.R. Hughes, Space-time finite element methods for	
second-order hyperbolic equations	(3) 327 - 348

^{*} The issue number is given in front of the page numbers.

Ioakimidis, N.I., Application of the conformal mapping and the complex path- independent integrals to the location of elliptical holes and inclusions in plane elasticity problems	(1) 1- 14
Jiang, BN., see Chang, C.L.	(3) 247 – 255
Kuo, Y.H., see Lee, S.Y.	(2) 163 – 173
Laurent-Gengoux, P., see Dilintas, G. Lee, S.Y. and Y.H. Kuo, Divergence-type stability of a non-uniform column Liu, N., N. Altiero and U. Sur, An alternative integral approach applied to	(2) 111 – 127 (2) 163 – 173
kinked cracks in finite plane bodies Luehr, C.P. and M.B. Rubin, The significance of projection operators in the	(2) 211 – 226
spectral representation of symmetric second order tensors Luo, JC. and M.B. Friedman, A parallel computational model for the finite	(3) 243 – 246
element method on a memory-sharing multiprocessor computer	(2) 193 – 209
Miller, J.J.H., see Fitzsimons, C.J.	(1) 43 - 57
Oden, J.T., see Demkowicz, L.	(3) 275 - 326
Rachowicz, W., see Demkowicz, L.	(3) 275 - 326 $(3) 257 - 324$
Rippa, S. and B. Schiff, Minimum energy triangulations for elliptic problems	(3) $257 - 274$
Rolfes, R., see Stein, E.	(1) $77 - 95$ (3) $243 - 246$
Rubin, M.B., see Luehr, C.P.	(3) 243 – 240
Sahimi, M.S., see Evans, D.J. Saigal, S., Iteration schemes for improved convergence in boundary element	(1) 15 - 42
reanalysis	(1) $97 - 107$
Schiff, B., see Rippa, S.	(3) 257 $-$ 274
Sobh, N., see Farhat, C.	(2) 147 $-$ 162
Stein, E. and R. Rolfes, Mechanical conditions for stability and optimal	(1) 77 05
convergence of mixed finite elements for linear plane elasticity	(1) $77 - 95$
Sur, U., see Liu, N.	(2) 211 - 226 $(2) 175 102$
Szepessy, A., see Hansbo, P.	(2) 175 - 192
Tin-Loi, F., see Wakefield, R.R.	(3) $229 - 242$
Troina, L.M., see Coutinho, A.L.G.A.	(2) 129 - 145
Wakefield, R.R. and F. Tin-Loi, Large scale nonholonomic elastoplastic	
analysis using a linear complementary formulation	(3) 229 $-$ 242
Wang, S., see Fitzsimons, C.J.	(1) 43 - 57
Wu, C.H., see Fitzsimons, C.J.	(1) $43 - 57$

SUBJECT INDEX OF VOLUME 84*

Boundary element methods

A comparison between various boundary integral formulations of the exterior acoustic problem, S. Amini and P.J. Harris Iteration schemes for improved convergence in boundary element reanalysis, S. Saigal An alternative integral equation approach applied to kinked cracks in finite plane bodies, N. Liu, N. Altiero and U. Sur	 (1) 59 - 75 (1) 97 - 107 (2) 211 - 226
Conformal mapping	
Application of the conformal mapping and the complex path-independent integrals to the location of elliptical holes and inclusions in plane elasticity problems, N.I. Ioakimidis	(1) 1- 14
Design of programs	
Conjugate gradient solution of finite element equations on the IBM 3090 vector computer utilizing polynomial preconditions, A.L.G.A. Coutinho, J.L.D. Alves, N.F.F. Ebecken and L.M. Troina	(2) 129 – 145
Dynamics	
Space-time finite element methods for second-order hyperbolic equations, G.M. Hulbert and T.J.R. Hughes	(3) 327 – 348
Elasticity	
Application of the conformal mapping and the complex path-independent integrals to the location of elliptical holes and inclusions in plane elasticity problems, N.I. Ioakimidis	(1) 1- 14
Mechanical conditions for stability and optimal convergence of mixed finite elements for linear plane elasticity, E. Stein and R. Rolfes	(1) 77 - 95
Iteration schemes for improved convergence in boundary element reanalysis, S. Saigal	(1) 97 – 107

^{*} The issue number is given in front of the page numbers.

Computing stress intensity factors in anisotropic solids by finite element methods, G. Dilintas and P. Laurent-Gengoux (2) 111 - 127Space-time finite element methods for second-order hyperbolic equations, G.M. Hulbert and T.J.R. Hughes (3) 327 - 348 Electromagnetic fields Hexahedral finite elements for the stationary semiconductor device equation, C.J. Fitzsimons, J.J.H. Miller, S. Wang and C.H. Wu (1) 43 - 57 Finite difference methods The solution of nonlinear parabolic partial differential equations by the alternating group explicit (AGE) method, D.J. Evans and M.S. Sahimi (1) 15-42Finite element and matrix methods Hexahedral finite elements for the stationary semiconductor device equation, C.J. Fitzsimons, J.J.H. Miller, S. Wang and C.H. Wu (1) 43 - 57 Mechanical conditions for stability and optimal convergence of mixed finite elements for linear plane elasticity, E. Stein and R. Rolfes (1) 77 - 95 Computing stress intensity factors in anisotropic solids by finite element methods, G. Dilintas and P. Laurent-Gengoux (2) 111 - 127Conjugate gradient solution of finite element equations on the IBM 3090 vector computer utilizing polynomial preconditions, A.L.G.A. Coutinho, J.L.D. Alves, N.F.F. Ebecken and L.M. Troina (2) 129 - 145A consistency analysis of a class of concurrent transient implicit/explicit algorithms, C. Farhat and N. Sobh (2) 147 - 162A velocity-pressure streamline diffusion finite element method for the incompressible Navier-Stokes equations, P. Hansbo and A. Szepessy (2) 175 - 192 A parallel computational model for the finite element method on a memorysharing multiprocessor computer, J.-C. Luo and M.B. Friedman (2) 193 - 209An error analysis of least-squares finite element method of velocity-pressure-vorticity formulation for Stokes problem, C.L. Chang (3) 247 - 255 and B.-N. Jiang Minimum energy triangulations for elliptic problems, S. Rippa and B. Schiff (3) 257 - 274A new finite element method for solving compressible Navier-Stokes equations based on an operator splitting method and h-p adaptivity, L. Demkowicz, J.T. Oden and W. Rachowicz (3) 275 - 326 Space-time finite element methods for second-order hyperbolic equations, G.M. Hulbert and T.J.R. Hughes (3) 327 - 348

Fluid mechanics

A velocity-pressure streamline diffusion finite element method for the incompressible Navier-Stokes equations, P. Hansbo and A. Szepessy (2) 175-192

Fracture mechanics

- Computing stress intensity factors in anisotropic solids by finite element methods, G. Dilintas and P. Laurent-Gengoux (2) 111 127
- An alternative integral equation approach applied to kinked cracks in finite plane bodies, N. Liu, N. Altiero and U. Sur

 (2) 211-226

Incompressible and near incompressible media

An error analysis of least-squares finite element method of velocity-pressure-vorticity formulation for Stokes problem, C.L. Chang and B.-N. Jiang

(3) 247-255

Least squares method

An error analysis of least-squares finite element method of velocity-pressure-vorticity formulation for Stokes problem, C.L. Chang and B.-N. Jiang

(3) 247-255

Matrix calculus

The significance of projection operators in the spectral representation of symmetric second order tensors, C.P. Luehr and M.B. Rubin

(3) 243-246

Nonlinear mechanics

A velocity-pressure streamline diffusion finite element method for the incompressible Navier-Stokes equations, P. Hansbo and A. Szepessy

Large scale nonholonomic elastoplastic analysis using a linear complementarity formulation, R.R. Wakefield and F. Tin-Loi

(3) 229-242

Numerical solution procedures

- The solution of nonlinear parabolic partial differential equations by the alternating group explicit (AGE) method, D.J. Evans and M.S. Sahimi

 Conjugate gradient solution of finite element equations on the IBM 3090 vector computer utilizing polynomial preconditions, A.L.G.A. Coutinho, J.L.D. Alves, N.F.F. Ebecken and L.M. Troina

 (2) 129-145

 Large scale nonholonomic elastoplastic analysis using a linear complementarity
 - formulation, R.R. Wakefield and F. Tin-Loi

 (3) 229 242

Plasticity

Large scale nonholonomic elastoplastic analysis using a linear complementarity formulation, R.R. Wakefield and F. Tin-Loi	(3) 229 – 242
Solutions of differential equations	
Divergence-type stability of a non-uniform column, S.Y. Lee and Y.H. Kuo	(2) 163 – 173
Solutions of integral equations (singularity method)	
An alternative integral equation approach applied to kinked cracks in finite plane bodies, N. Liu, N. Altiero and U. Sur	(2) 211 – 226
Stability in structural mechanics	
Mechanical conditions for stability and optimal convergence of mixed finite elements for linear plane elasticity, E. Stein and R. Rolfes	(1) 77 – 95
Systems of linear and nonlinear simultaneous equations	
A parallel computational model for the finite element method on a memory- sharing multiprocessor computer, JC. Luo and M.B. Friedman	(2) 193 – 209
Supersonic flow	
A new finite element method for solving compressible Navier-Stokes equations based on an operator splitting method and h-p adaptivity, L. Demkowicz, J.T. Oden and W. Rachowicz	(3) 275 – 326
Viscous flow	
A velocity-pressure streamline diffusion finite element method for the incompressible Navier-Stokes equations, P. Hansbo and A. Szepessy A new finite element method for solving compressible Navier-Stokes equations based on an operator splitting method and h-p adaptivity, L. Demkowicz, J.T. Oden and W. Rachowicz	 (2) 175 – 192 (3) 275 – 326
Wave motion	

A comparison between various boundary integral formulations of the exterior acoustic problem, S. Amini and P.J. Harris

(1) 59 - 75

